

SMIRNOV, K.A., inzhener.

Reflect of the stumpiness of peat deposits on cyclical yield of cut peat.
Torf.prom. 31 no.3:21-22 *54. (MLRA 7:6)

1. Shaturskoye torfopredpriyatiye. (Peat industry)

OREKHOV, K.A.; MAKSIMOV, G.M.; NESLUKHOVSKIY, S.K.; ROZDŽALOVSKAYA, V.V.; SMIRNOV, K.A.; VEYS, L.V.; ANTYUFEYEVA, A.M.; KURGANOV, M.A.; STEPANOVA, Ye.A.; VOSTRIKOVA, A.M.; SAKHAROVA, V.V.; POD"YACHIKH, P.G.; OREKHOV, K.A., otv. 2a vypusk; CHUPROVA, Yu.S., red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 All-Union population sensus; the Kazakh S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia 1959 goda; Kazakhskaia SSR. Moskva, Gosstatizdat, 1962. 201 p. (MIRA 16:4)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye.

(Kazakhstan--Census)

Improvement of the schematic for the local control of switches.

Avtom.telem.i swiaz' 4 no.8:28-29 Ag '60. (MIRA 13:8)

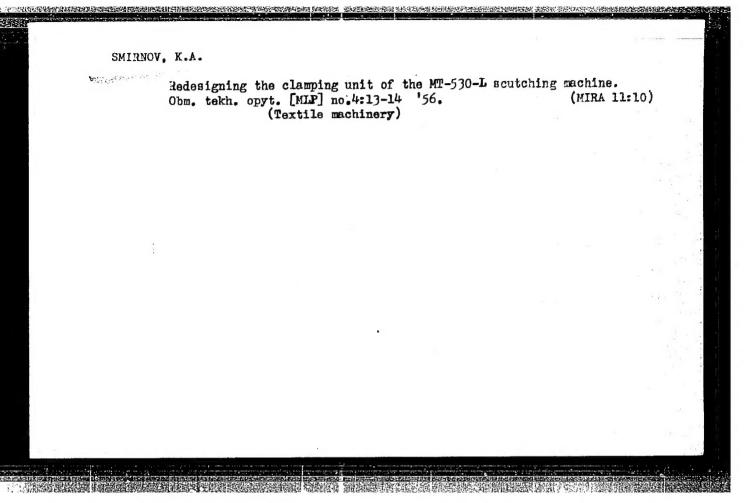
1. Giprotranssignalswyaz'.

(Railroads--Switching)

SMIRNOV, K., inzh.-podpolkovnik

Inspection is a creative activity. Av. i komm. no.1:62-65
Ja '66.

(MIRA 19:1)



SMIRNOV, K. (Ivanova); SANAMYAN, S. (Baku); VOROB'YEV, I. (L'vov); KOVSHAROV, I. (Khadyzhensk, Krasnodarskiy kray).

Visual methods of teaching are pledge of success. Pozh. delo 4 no.5: 10-12 My 58. (MIRA 11:5)

(Fire prevention--Study and teaching)

SMIRNOV, K. (Ivanove)

The WKF-54 mounted pumps used in rural fire brigades. Pozh.dele
4 no.9:17-18 S '58. (MIRA 11:9)

1.Nachal'nik pozharno-ispytatel'noy stantsii.

(Fire engines)

ZAGOROVSKIY, L.; SMIRNOV, K.

Reliable system of fire extinction. Pozh.delo 5 no.8:25-26 Ag '59. (MIRA 12:12)

1. Nachal'nik Upravleniya pozharnoy okhrany Ivanovskogo oblispolkoma (for Zagorovskiy). 2. Nachal'nik pozharno-ispytatel'-noy stantsii Ivanovskogo oblispolkoma (for Smirnov).

(Fire sprinklers)

Fireproofing of drive belts. Pozh.delo 6 no.1:5 Ja '60.

(Ivanovo-Textile factories-Fires and fire prevention)

(Fireproofing of fabrics)

SMIRNOV, K.

Efficiency promoters in Ivanovo Province. Pozh. delo 7 no. 1:15
Ja 160. (MIRA 14:2)

SMIRNOV, K.

New equipment calls for new fire regulations. Pozh.delo 7 no.8:11 Ag '61. (MIRA 14:8)

 Nachal'nik pozharno-ispytatel'noy stantsii, g. Ivanovo. (Textile factories—Fires and fire prevention)

SITAHOV, K. A.

Assoc., Central Sci. Res. Electrical Lab., Min. Elec. Power Stations, -1950-. Cand. Technical Sci.

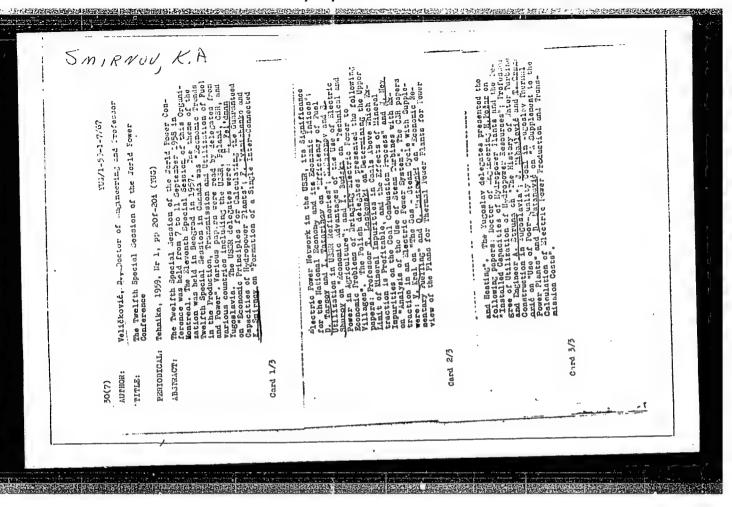
"Stability of Excitation Control in Generators With Rising Characteristics," Elektrichestvo, No. 1, 1950;

"On the Projected Standard for Nominal Voltages of Stationary Electric Networks," ibid., No. 1, 1950.

SMIRNOV, K. [A.; and IVANISHCHENKO, F. D.,

"Development of the Single Fower System in the USSR, its Role in the National Economy and Its Economic Index."

report presented at the 14th Sectional Meeting of the World Power Conference, Montreal, Canada, 7-12 Sep 58.



SMIRNOV, K.A.

Principal technological and economic rules for voltage schemes in electric networks. Elektroenergetika no.4:3-19 '61.

(Electric power distribution)

(Electric power distribution)

SMIRNOV, K.A., kand.tekhn.nauk

Choice of an efficient composition of connected electrical units. Elektrichestvo no.1:12-15 Ja '62. (MIRA 14:12)

1. Energeticheskiy institut imeni Krzhizhanovskogc.
(Electric power distribution)
(Electric power plants)

SMIRNOV, K.A., kand.tekhn.nauk (Moskva)

Calculation of economical distribution of real and reactive power in an electric power system with given limitations in its operation. Elektrichestvo no.3:6-9 Mr '62. (MIRA 15:2)

(Electric power distribution)

SMIRNOV, K.A., kand.tekhn.nauk (Moskva)

Phasor method for calculating currents expressed as the product of two sinusoidal quantities. Elektrichestvo no.7:19-21 J1 162.

(MIRA 15:7)

(Electric networks)

SMIRNOV, K. A.; GORNSHTEYN, V. M.; SOVALOV, S. A.; USOV, S. V.

"The Economic Principles Governing Power System: Operation Schedules in the U.S.S.R."

report submitted for Intl Conf on Large Electric Systems, 20th Biennial Session, Paris, 1-10 Jun 64.

SMIRNOV, K.A., kand, tekim, nauk

Fixed parameter and relative base increment methods for calculating the operational efficiency of a power system.

Elektrichestvo no.1:35-38 Ja '64. (MTMA 17:6)

1. Energeticheskiy institut ineni Krahishanovskogo.

MAUMOV, P. 104 SMIRNOV, K.A.; ARIPDV, M.N.

Accelerated study of the operational quality of telegraph communications.
Flektroxyiazi 18 no.7169-73 Jl 164.

(MIRA 17:10)

L 46.30-66 EWT(1) TG
ACC NR: AR6004347

SOURCE CODE: UR/0274/65/000/009/V025/V025

6

B

AUTHOR: Smirnow, K. A.

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 23, 1964, 168-173

TITLE: Reliability of telegraphic communication in the face of circuit cutouts of

short duration

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz¹, Abs. 9V191

TOPIC TAGS: telegraph system, circuit reliability, circuit failure

TRANSLATION: An interpretation of the concepts of interruption and reliability in telegraphic communication is given. Procedures for the calculation of communication reliability with circuit breaks in the network are shown for both fixed and switched channels. It is concluded that inasmuch as the parameter of communication reliability does not take into account the functionability of the circuit at the time of transmission, it is advisable to use the parameter for communication reliability in evaluating the latter. For a fixed channel, R=0.997 can be used (in the worst case) as a value communication reliability with interruptions in the network, while for a switched channel the value would be on the order of R=0.98. B. B.

SUB CODE: 17,14/

SUBM DATE: none

Card 1/1 mjs

UDC: 621.394

SMIRNOV, K.A., kand. tekhn. nauk

Absolute and relative optima in the selection of an economical composition of units in a power system. Elektrichestvo no.6:18-20 Je '65. (MIRA 18:7)

1. Energeticheskiy institut imeni G.M.Krzhizhanovskogo.

"APPROVED FOR RELEASE: 08/25/2000

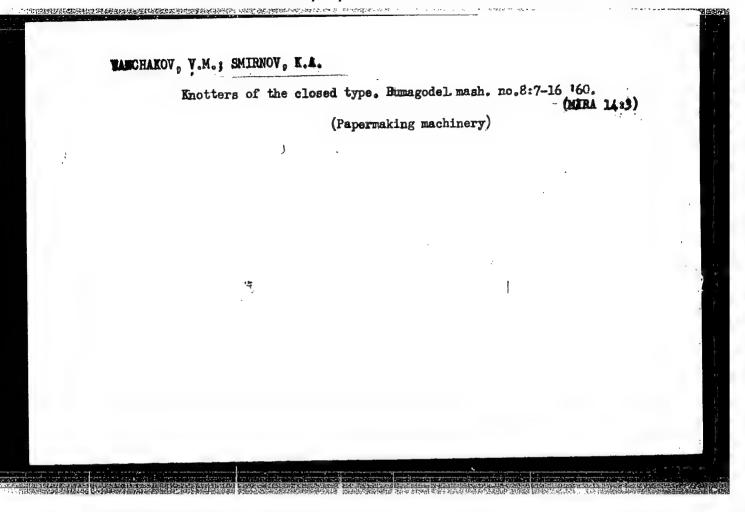
CIA-RDP86-00513R001651520013-7

ACC NR: AT6022305

the probability of data transmission cutoff is already great for channels with an initial quality estimated by $Rp = 10^{-3}$ for block length m = 25 combinations. It is concluded that the use of systems with m > 25 characters and an error probability $Rp = 10^{-3}$ is not practical. Orig. art. has: 10 formulas and 1 figure.

SUB CODE: 09/ SUBM DATE: 24Mar66/ ORIG REF: 006

Cord 2/2



SMIRNOV, K.A.; ZIGBERMAN, D.I.

Measuring the pressure pulsation of a pulp suspension against the sieve in sorting knot screens. Bumagodel.mash. no.9:26-32 '61. (MIRA 15:1)

(Papermaking machinery)

USSR/Electricity - Generators Jul 50
Central Heating

"Use of Heat Released by Hydroelectric Generators," K. D. Smirnov, Engr

"Elek Stants" No 7, pp 21-22

Describes present system for cooling hydroelectric generators whereby heat is wasted. Proposes to introduce hot air pump capable of supplying about 600 people with central heating from this source and points out economic advantages of such system. Editor proposes experiments on this scheme be carried out at a suitable hydroelectric power station.

SMIRNOV, K.D.; SIDYAKOV, P.V., kandidat tekhnicheskikh nauk, redaktor; PULKINA, Ye.A., tekhnicheskiy redaktor.

[Heating and ventilation of hydroelectric power stations] Teplosnabzhenie i ventiliatsiia gidroelektrostantsii. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1953. 163 p. (MLRA 7:11) (Hydroelectric power stations--Heating and ventilation)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651520013-7

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 98-99 TOPIC TAGS: tellurometer, radio rangefinder, geodetic instrument	}	gring velocity, distance traversed, and time.	TITLE: Electronic instrument for Class 42, No. 170776	TITLE: Elec	
ABSTRACT: An Author Certificate, issued for a device which measures velocity, distance traversed, and time, combines a high-precision tellurometer, a phase distance equipped with a unit for converting sinusoidal signals to pulsed signals, recorder equipped with a unit for converting sinusoidal signals to pulsed signals, and a unit for measuring phase differences. Readings are made visually. The circuit connections of the device, consisting of a series of computer-type modules, are described in detail. [SP] ASSOCIATION: none		rinder, geodetic instrument 10,14,55 ed for a device which measures velocity, a high-precision tellurometer, a phase erting sinusoidal signals to pulsed signals, nces. Readings are made visually. The sisting of a series of computer-type modules,	TOPIC TAGS: tellurometer, radio ABSTRACT: An Author Certificate distance traversed, and time, corecorder equipped with a unit for and a unit for measuring phase circuit connections of the devi- are described in detail.	TOPIC TAGS: ABSTRACT: distance tr recorder eq and a unit circuit con are describ	
Card 1/2			Card 1/2	Card 1/2	i

SMIRNOV, K.F., elektrosvaishohik; ALEKSANDROV, M.A., slesar.

Device used for simultaneous heating of water and sand in concrete mixers. Rats. i isobr. predl. v stroi. no.5:8-9 '58.

(MIRA 11:6)

1. Stroitel'nyy uchastok-2 tresta Baltransstroy (for Smirnov),
Riga, ul. Lachplesha, d. 36.

(Heating plants) (Concrete mixers)

COROKHOVSKIY, A.D.; SHIERAY, K.I.

Manufacturing cerumic panels composed of 18-slot stone. Stroi. mat. 11 no.7:1-5 Jl '65. (MIPA 18:2)

1. Glavnyy inzh. Podol'skogo zavoda stenovykh materialov i konstruktsiy (for Gorokhovskiy).

SMIRNOV, K.I.; RAVINSKIY, M.I.

Gold welding of contact cables. Elek.i tepl.tiaga 3 no.12:
(MIRA 13:5)

1. Nachal'nik sluzhby elektrifikatsii i energeticheskogo khozyaystva
Oktyabr'skoy dorogi (for Smirnov). 2. Nachal'nik LeningradFinlyandskogo uchastka energosnabsheniya (for Ravinskiy).

(Electric cables—Welding)

ALEKSEYEV, G.P.—(continued). Card 2.

[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaia gidroelektrostantsiia; tekhnicheskii otchet o proektirovanii i stroitel'stve Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of constrution and assembly work] Organizatsiia i proizvodstvo stroitel'nomontazhnykh rabot. Red. toma: N.V.Razin, A.V.Arngol'd, N.L. Triger. 1962. 591 p. (MIRA 16:2)

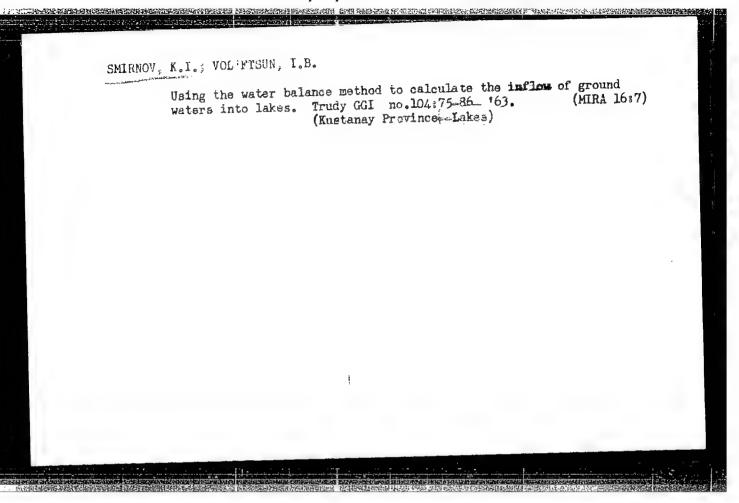
1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin).

(Volga Hydroelectric Power Station (Lenin) -- Design and construction)

SMIRNOV, K.I.

Evaporation from soil in Kustanay Province. Trudy GGI no.104:
37-59 '63.

(Kustanay Province—Soil moisture) (Evaporation)



PAVLOV, S. T.; SMIRNOV, K. K.

Frostbite Prophylaxis by Means of Greases.

Voyennoye-sanitarnoye Delo. 1942, 11-12, 37-50

KUZNETSOV, V.I., polkovnik med. sluzhby; BARONOV, V.A., polkovnik med. sluzhby; TITOV, A.I., polkovnik med. sluzhby, dots.; FIAIKOVSKIY, V.V., polkovnik med. sluzhby; SMIRNOV, K.K., polkovnik med. sluzhby, kand. med. nauk; DOVZHENKO, G.I., polkovnik med. sluzhby; DIVNINKO, P.G., polkovnik med. sluzhby; GORYUSHIN, G.S., podpolkovnik med. sluzhby; SHCHERBEKOV, N.I. podpolkovnik med. sluzhby; ZHUK, Ye. G., podpolkovnik med. sluzhby; BUTOMO, N.V., mayor med. sluzhby; PREOBRAZNEHSKIY, P.V., mayor med. sluzhby; TIKHONOV, K.B., mayor med. sluzhby

Clinical manifestations in subjects exposed to prolonged ionizing irradiation. Voen. med. zhur. no.2:40-43 F '57 (MIRA 12:7) (RADIATIONS, effects.

clin. manifest. in subjects exposed to prolonged ionizing irradiation (Rus))

SMIRNOV, K.K.

Ensure the success of the last year of the seven-year plan. Stroi. truboprov. 10 no.9:1-3 S '65. (MIRA 18:9)

1. Zamestitel predsedatelya Gosudarstvennogo proizvodstvennogo komiteta po gazovoy promyshlennosti SSSR.

SMIRNOV, K.K.

All-Union Public Inspection of the Quality of Construction and the Competition for the Best Construction According to Standard and Economical Designs. Stroi.truboprov. 10 no.10.2-3 (MIRA 18:10)

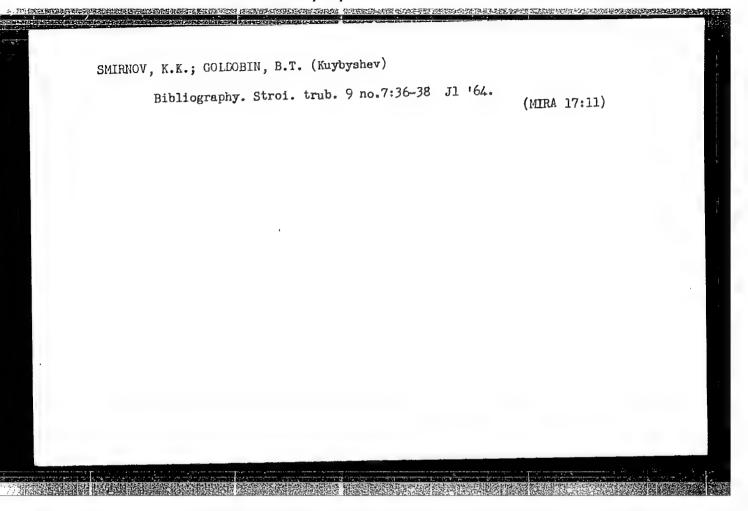
1. Predsedatel' tsentral'noy komissii Gosudarstvemogo proizvodstvennego komiteta po gazovoy promyshlennosti SSSR po provedeniyu Vseseyuznogo obshchestvennogo smotra kachestva stroitel'stva i konkursa na luchsheye stroitel'stvo po tipovym i ekonomicanym projektam.

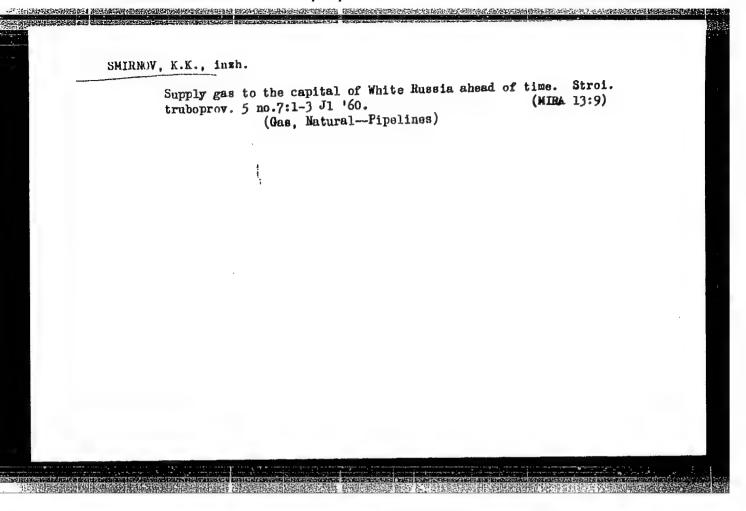
KURMEY, Yevgeniy Stepanovich; KONTSOV, Aleksandr Grigor'eyvich; SMIRNOV.

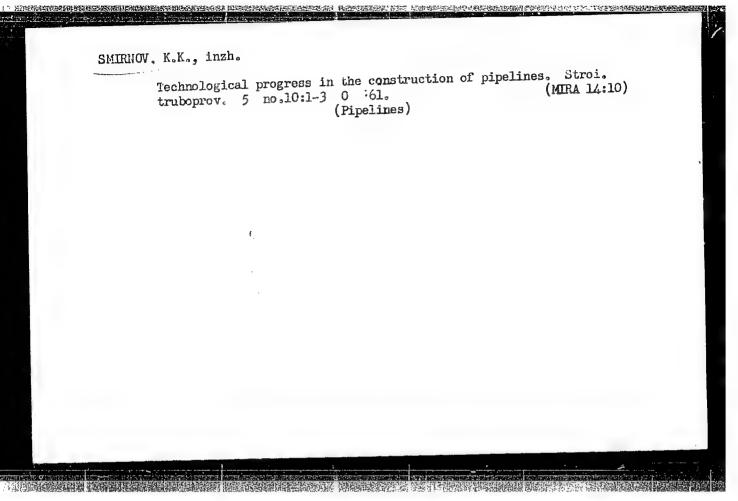
K.K. otvetstvennyy redaktor; USHAKOV, K.Z., otvetstvennyy redaktor;

GRISHAYENKO, M.I., redaktor izdatel'stva; SABITOV, A., tekhnicheskiy redaktor

[Ventilation of mines in the Kuznetsk Bazin] Provetrivanie shakht Kuzbassa. Moskva, Ugletekhizdat, 1957. 173 p. (MLRA 10:9) (Kuznetsk Basin--Mine ventilation)







Prepare well and in good time for the fall and winter period.

Stroi. truboprov. 7 no.8:3-5 Ag '62. (MIRA 15:9)

1. Zamestitel' nachal'nika Glavnogo upravleniya gazovoy

(Pipelines-Cold weather conditions)

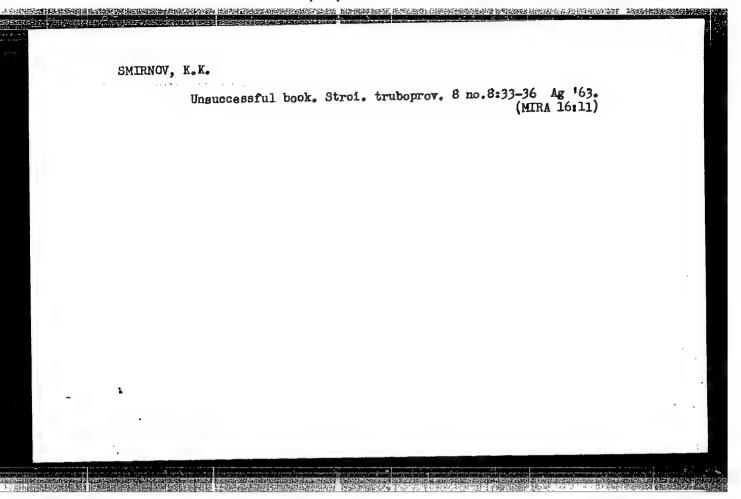
promyshlennosti SSSR.

SMIRNOV, K.K.

Tasks for construction workers in the Main Administration of the Gas Industry of the U.S.S.R. in the fourth year of the seven-year plan. Stroi. truboprov. 7 no.1:1-2 Ja '62.

1. Zamestitel' nachal'nika Glavnogo upravleniya gazovoy promyshlennosti SSSR.

(Gas, Natural—Pipelines)



SMIRNOV, K. K. SHPAKOVSKIY, V. I.

"The construction of gas transmission pipeline Bukhara - Urals."

Report to be submitted at the 9th Intl. Gas Conference, Hague, 1-4 Sept 1964.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651520013-7

OSIPYAN, V.T.; STEPANOV, M.K.; GRABOVSKIY, B.S.; SMIRNOV, K.K.; KAZHDAN, V.B.; MASLIY, L.K.; DUNAYEVA, I.D.

Gomparative effectiveness of hexamethylenebenzamide and acetyltetrahydroquinoline as protective agents against fleas in humans. Med. paraz. i paraz. bol. 32 no.5:551-553 S-0'63 (MIRA 16:12)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651520013-7"

SMIRNOV, K. L. (WKXXX Oblast' Conference of veterinary specialists.), AKATOV, V. A. (Professor, Doctor of Veterinary Sciences).

"Training of specialists on artificial insemination of animals in the $\mbox{Voronezh}$ Zooveterinary Institute.

Veterinariya, Vol. 38, No. 4, 1961.

L 08550-67 EWT(1) SOURCE CODE: UR/0346/66/000/010/0024/0026 ACC NR: AP6032118 (A, N) AUTHOR: Smirnov, K. L. (Chief of veterinary section); Konovalov, A. I. (Director of Vologodskaya oblast' veterinary laboratory) ORG: none TITLE: Experience in elimination of brucellosis in cattle SOURCE: Veterinariya, no. 10, 1966, 24-26 TOPIC TAGS: brucellosis, brucella, bovine brucellosis, animal disease therapeutics ABSTRACT: No new brucellosis foci have been reported in the Vologodskaya oblast since 1963 as a result of a comprehensive eradication program including vaccination of both adult cows and heifers in safe and threatened areas, and isolation and slaughter of infected animals. As a result of prompt diagnosis and vaccination of adult cattle, an immune livestock population has been created around unsafe areas and the spread of brucellosis in cattle has been stopped. Abortions in cows and heifers in one-third of the safe farms two to three months after vaccination pare mostly attributed to the brucella vaccine, since no aggravation of brucellosis cases followed these abortions. [W.A. 50] SUB CODE: 06/ SUBM DATE: none 619:616.981.42-0841:636.22 Card 1/1 2

YAKUBOVICH, A.Ya.; SMIRNOV, K.M.; DUBOV, S.S.

Synthesis of vinyl monomers. Fluoroacetylene, its preparation and properties. Khim.nauka i prom. 4 no.4:551-552 159.

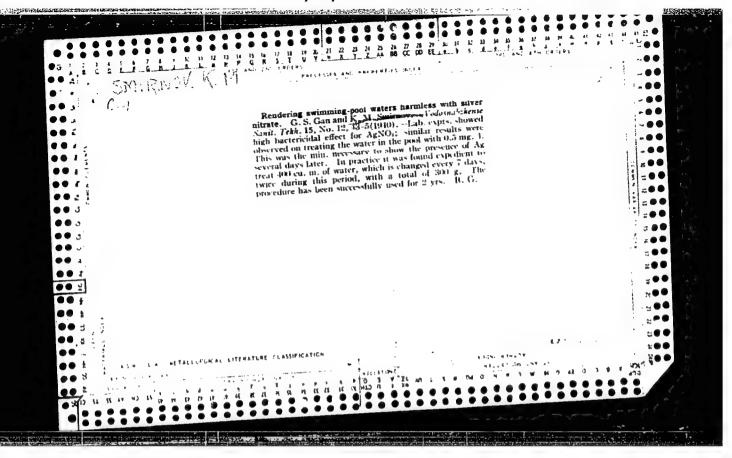
(Acetylene)

(Acetylene)

SMIRMOV, K. M.; GINSBURG, V. A.; YAKUBOVICH, A. Ya.

Reaction of fluoroacetylene with mercury salts. Zhur. VKHO 8 (MIRA 16:4)

(Acetylene) (Mercury salts)



SMIRNOV, K.M.; BAKULIN, S.A.; GOLOVINA, L.L.; ZAK, E.Ya.; KOGAN, S.D. Effect of competitive athletics or gas exchange, pulse rate, arterial pressure and work capacity in humans. Fiziol.zhur. 45 no.3:289-294 (MIRA 12:11) 159. 1. From the Postgraduate Medical Institute, Leningrad, and the Central Institute of Physical Culture, Moscow. (ATHLETICS, blood pressure, pulse rate, resp. & work capacity in athletes (Rus)) (BLOOD PRESSURE, in athletes (Rus)) (RESPIRATION, same) (WORKING, capacity in athletes (Rus)) (PULSE. in athletes (Rus))

SMIRNOV, K. M.

37574. K Istorii jechebnoy Fizicheskoy Kul'Tury V Rossii. Sov. Vracheb. Sbornik, Vyp. 17, 1949, S. 34-36

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

SMIRNOV, K.M., podpolkovnik meditsinskoy sluzhby

Diagnostic significance of some functional tests. Voen.-med.zhur.

no.6:45-51 Je '51.

(DIAGNOSIS)

SMIRNOV, K. M.

"Conditioned Reflex Mechanisms of Regulation of Physiological Functions During Physical Exercises." Dr Med Sci, Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR (Apr-Jun 54). (Vest AK Nauk, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

MATYUSHKINA, NA.; SMIRNOV, K.N.; TRUBITSYNA, G.A.

Physiological analysis of thermoregulation of the body during exposure to cold combined with physical exercise. Opyt izuch.reg. (MLRA 8:12) fiziol.funk.no.3:231-241 154.

1. Fiziologicheskaya laboratoriya Kursov usovershenstvovaniya ofitserov po fizicheskomu obrazovaniyu i Laboratoriya ekologicheskoy fiziologii Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR. (BODY TEMPERATURE) (COLD--PHYSIOLOGICAL EFFECT) (EXERCISE)

SMIRNOV, K.M.

Physiological study of the condition of athletes preceding action. Opyt izuch.reg.fiziol.funk. no.3:274-310 '54. (MIRA 8:12)

l. Krasnoznamennyy voyennyy institut fizicheskoy kul'tury i sporta imeni V.I.Lenina i Laboratoriya ekologicheskoy fiziologii Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR. (METABOLISM) (ATHLETES)

LIBERMAN, V.B.; MAKAROVA, A.R.; SMIRNOV, K.M.; TRUBITSYNA, G.A

Gas exchange during restoration following brief but very intensive physical exercise. Opyt izuch.reg.fiziol.funk. no.3:311-322 '54. (MIRA 8:12)

1. Laboratoriya ekologicheskoy fiziologii Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR i Leningrasskii nauchno-issledovatel' skiy institut fizicheskoy kul'tury (RESPIRATION) (EXERCISE)

SMIRNOV K M USSR/Biology - Physiology

FD-2250

Card 1/1

Pub 17-1/20

Author

: Smirnov, K. M.; Matyushkina, N. A.

Title

: Physiologic characteristics of the pre-starting state. Report IV: The effect of preliminary muscular work on athletes under various prestart-

ing state conditions

Periodical: Byul. eksp. biol. i med. 3, 3-5, Mar 1955

Abstract

: Investigated the relative effects of muscular activity and the quiescent state on the response of athletes to the starting signal. In connection with the above, studied variations in the amount of oxygen consumption in a group of trained athletes under various conditions in the laboratory and gymnasium, before training and before athletic contests. Six

references, all USSR, 4 since 1940.

Institution: The Military Institute of Physical Culture and Sport imeni $\frac{\sqrt{L}}{B}$. Lenin

Submitted : 10 March 1954. Presented by V. N. Chernigovskiy, Member of the Academy

of Medical Sciences USSR

CIA-RDP86-00513R001651520013-7 "APPROVED FOR RELEASE: 08/25/2000

SMIRNOV, KM USSR/Medicine

FD-2418

Card 1/1

Pub 17-1/21

Author

: Smirnov, K. M.

Title

Physiological Characteristics of prestart conditions

Periodical: Byul. eksp. biol. i med. 39, 3-7, Jan 1955

Abstract

: The level of the basic metabolism varies widely in relation to functional conditions of the central nervous system and changes which are influenced by various conditioned reflex irritations, depending on the aggregate of irritation from the outer and inner media. Author studied the prestart signal stimulation changes of the basic metabolism of 27 athletes and concludes that since the organism undergoes periodic changes during the 24 hour day, it is important to know the stereotyped 24 hour rhythm of the athletes. It is known that from physical exercise arise simultaneous increases in the inhibitory and stimulating processes. This brings about concentration of stimulation at the critical time and emergence of prestart reactions of the organism immediately before the start of the event. 2 references, 2 USSR. 1 since 1940. graphs

Institution: Military Institute of Physical Culture and Sport imeni V. I. Lenin

Submitted

March 10, 1954

FPIR 0273/67

PATE TO THE RESIDENCE OF THE PARTY OF THE PA

47. USSR

"Medical Engineering"

Moscow, Nauka i Zhizn', No 1, 1967, pp 42-44

Abstract: This article contains a description of some Soviet medical instruments and apparatus developed in the All-Union Scientific Research Institute of Medical Instrument Building, Ministry of Health USSR. The instruments include those controlled by bioelectric currents, so that the functions which these instruments perform, including x-ray photography, replacement of heart and lungs, functioning as artificial limbs or hands, etc., are synchronized with the flow of the life processes being observed or replaced. In particular, the "Biopul's" machine partially replaces the human heart during an operation or recovery from a heart attack. This device can control itself or be synchronized with the heart of the patient, using the electric potentials arising during operation of the heart. Among the other instruments described are: an "x-ray" machine using audio frequency waves in place of x-rays; a highly automated UHF-therapy machine; an artificial respiration machine which can be synchronized with the breathing of the patient or may operate independently, allowing precise measurement and control of quantity and rate of air supply to the lungs. Several photographs of these instruments accompany the original article. 1/1

NK

FPIR 0273/67

46. USSR per

UDC: 614.2/615.47]:[519.24/681.14

SMIRNOV, L. P., All-Union Scientific Research Institute of Medical Instrument Building, Moscow

"On Use of Mathematical Methods and Computer Equipment in Public Health and the Medical Industry"

Moscow, Meditsinskaya Promyshlennost' SSSR, No 12, Dec 66, pp 10-16

Abstract: After a general introduction devoted to the possible uses of mathematical methods and computer equipment in medicine and public health, the author illustrates this potential with the example of using mathematics and computers to substantiate the optimum network of medical establishments and their structure, and to select a solution in developing medical equipment. The author treats both of these subjects very generally and briefly, offering in the one case an approximate method for calculating the number of beds in a hospital as a function of bed cost, on the one hand, and the cost to society of delays in treatment because of hospital overcrowding. In the second case, he discusses the use of mathematics and computers in designing heart pacemakers with feedback that would change their pulse frequency as a function of load (respiration). In conclusion the author discusses the new science of medical systems engineering.

FPIR 0273/67

47. USSR

"Medical Engineering"

Moscow, Nauka i Zhizn', No 1, 1967, pp 42-44

Abstract: This article contains a description of some Soviet medical instruments and apparatus developed in the All-Union Scientific Research Institute of Medical Instrument Building, Ministry of Health USSR. The instruments include those controlled by bioelectric currents, so that the functions which these instruments perform, including x-ray photography, replacement of heart and lungs, functioning as artificial limbs or hands, etc., are synchronized with the flow of the life processes being observed or replaced. In particular, the "Biopul's" machine partially replaces the human heart during an operation or recovery from a heart attack. This device can control itself or be synchronized with the heart of the patient, using the electric potentials arising during operation of the heart. Among the other instruments described are: an "x-ray" machine using audio frequency waves in place of x-rays; a highly automated UHF-therapy machine; an artificial respiration machine which can be synchronized with the breathing of the patient or may operate independently, allowing precise measurement and control of quantity and rate of air supply to the lungs. Several photographs of these instruments accompany the original article. 1/1

SMIRNOV, K.M.; SKLYARCHIK, Ye.L.

Peculiarities of salivation in man in various degrees of acclimatization to a hot climate. Fiziol.zhur. 43 no.5:389-392 My '57.

1. Krasnownamennyy voyennyy institut fizicheskoy kul'tury i sports (CLIMATE, acclimatization to hot climate, eff. on salivation (Rus))

(SALIVATION, SALIVARY GLANDS, physiology eff. of hot acclimatization (Rus))

OSIPOVA, OLV.; SMIRNOV, K.M.

Stages of exercise during the formation of a given frequency of respiratory movements in man. Fiziol. zhur. 46 Mr '60. (MIRA 14:7)

7. From the State S.M.Kirov Institute of Medical Institute for Medical Improvement, Leningrad.
(RESPIRATION)

SMIRNOV, K.M., prof.

NATIONAL PROPERTY OF THE PROPE

Physiological basis for a work and rest schedule for adolescents. Gig. i san. 26 no.2:34-37 F '61. (MIRA 14:10 (MIRA 14:10)

1. Iz Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M.Kirova.
(INDUSTRIAL HYGIENE)

(CHILDREN_EMPLOYMENT)

SMIRNOV, K.M.; OSIPOVA, O.V.; ASAFOV. B.D.

NA PROPERTY AND PROPERTY DESCRIPTION OF THE PROPERTY SHOWING SHOWING THE

Physiological mechanism of so-called voluntary respiration control in man; a study of respiration exercises.[Trudy] GIDUV no.35:7-15*62. (MTRA 16:6)

l. Kafedra vrachebnogo kontrolya za fizicheskim vospitaniyem i lechebnoy fizkul*tury Leningradskogo gosudarstvennogo ordema Lenina instituta dlya usovershenstvovaniya vrachey, laboratoriya fiziologii truda (zav. - dotsent K.S. Tochilov) Leningradskogo gosudarstvennogo universiteta, fiziologicheskaya laboratoriya (zav. - prof. A.M.Zimkina) Leningradskogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov.

(RESPIRATION) (CONTIDIONED RESPONSE)

SMIRNOV, K.M.; OSIPOVA, O.V., ASAFOV, B.D.

Physiological mechanism of the first stage. [Trudy] GIDUV no.35:16-26*62. (MIRA 16:6)

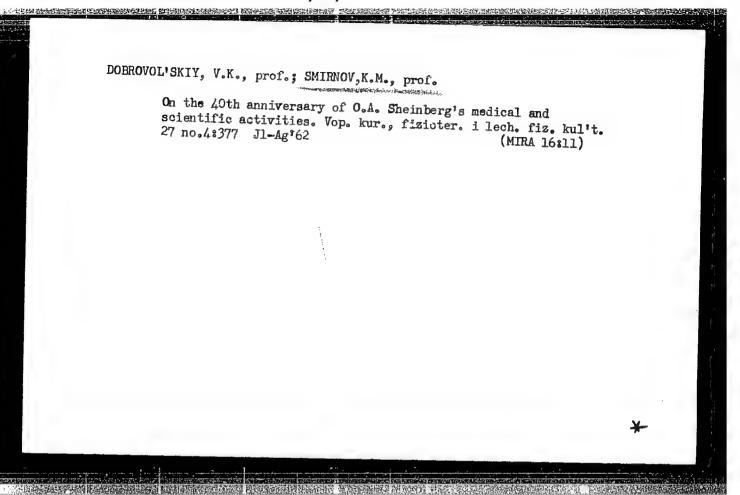
1. Kafedra vrachebnogo kontrolya za fizicheskim vospitaniyem i lechebnoy fizicheskoy kulitury Leningradskogo gosudarstvennogo ordena Lenina instituta dlya usovershenstvovaniya vrachey, laboratoriya fiziologii truda (zav. dotsent K.S.Tochilov) Leningradskogo gosudarstvennogo universiteta i fiziologicheskaya laboratoriya (zav. prof. A.M.Zimkina) Leningradskogo instituta ekspertizey trudosposobnosti i organizatsi1 truda invalidov.
(EXERCISE)

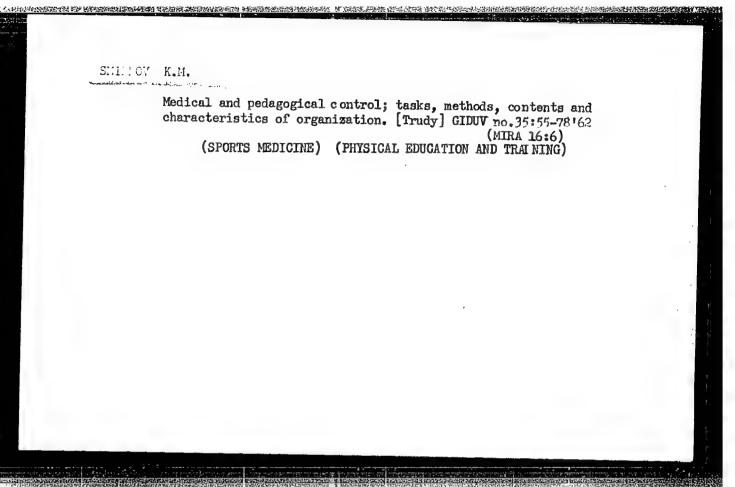
(CONDITIONED RESPONSE)

CIA-RDP86-00513R001651520013-7" APPROVED FOR RELEASE: 08/25/2000

SMIRNOV, K.M.; BASKOVICH, B.L.; OSIPOVA, O.V.; PARASHIN, Ye.V.

Effect of different respiration exercises on changes in the timing of motor reactions. [Trudy] GIDUV no.35:44-51'62. (MIRA 16:6) (RESPIRATION) (NOTION STUDY)





SMIRNOV, K.M., prof., orv. red.; DAN/KO, Yo.T., prof., red.; ZINKIN N.V., prof., red.;

THE PROPERTY OF THE PROPERTY O

[Coordination of motor and vegetative functions in human miscular activity] Koordinatsila dvigatel'nykh i vegetativnykh iunktsii pri mysaechnon detatel'nisti cheloveka. Moskva, Nauka, 1965. 137 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Obnyedinemiyy nauchnyy sovet "Fiziologiya cheloveka i zhisotrykh." 2. Gasudarstvemnyy institut
fizicheskcy kulitury im. P.F. lesgafta, Leningrad (for Zimkin).
3. Pervyy Meditsinskly institut im. I.P.Pavlova, Leningrad
(for Daniko). 4. Gasudarstvemnyy institut dlya usovershenstvovaniya vrachey im. S.M.Kirova, Leningrad (for Smirnov).

SMIRNOV, K.M. (Leningrad)

Reviews and bibliography. Fiziol.zhur. 51 no.11:1381-1382
N *65.

(MIRA 18:11)

SMIRNOV, KONSTANTIN NIKOLAEVICH

Universal'nyi teodolit Vil'da. Laboratornye o polevye ispytaniia; rukovodstvo k rabote. Leningrad, 1931. 1116 p. illus.

Added t. p. and table of contents in English; summary in English.

Bibliography: p. 111.

Universal theodolite "Wild".

Laboratory and field tests; instructions for work.

DLC: TA575.855

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SMIRNOV, KONSTANTIN NIKOLAEVICH

Konstruktsii i detali astronomo-geodezicheskikh instrumentov. Moskva, 1937. 200 p. illus.

At head of title: Voenno-inzhenernaia skademiia RKKA imeni V. V. Kuibysheva.

Bibliography: p. 175

Designs and elements of astronomical geodetic instruments.

DLC: TA562.566

SO: Mamufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

Investigation of optical theodolites T.B. 1 and OT-10 and of the tacheometrical theodolite TT-50. Trudy MIIT no.80/81:434 '55.

(Theodolites)

KARSLIYEV, S.G.; SMIRNOV, K.P.

Regulation of the batch length on GD-12 combing machines. Izv. vys. ucheb. zav.; tekh. teks. prom. no.6:34-38 '65.

(MIRA 19:1)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti imeni S.M. Kirova. Submitted March 12, 1965.

Processing of staple rayon blended with cotton. Tekst.prom. 20 no.8:24-26 Ag '60. (MIRA 13:9)	
1. Glavnyy inzhener fabriki "Vozrozhdeniye." (Rayon spinning)	
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in the same of the	

SMIRNOV, K. P.

Cand Tech Sci - (diss) "Study of several problems of spinning of viscose staple fiber in mixture with cotton." Leningrad, 1961. 18 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Textile Inst imeni S. M. Kirov); 150 copies; price not given; (KL, 5-61 sup, 193)

SMIRNOV, K.P.

Explosion of gasoline vapors in tanks caused by static electricity discharges. Sbor. rab. pozh.-ispyt. sta. no.3:59-60 '63. (MIRA 17:7)

1. Leningradskaya pozharno-ispytatelinaya stantsiya.

AFFTC/ASD JD/WB S/0080/63/036/007/1477/1482 EWP(q)/EWT(m)/BDS AP3006180 ACCESSION NR: AUTHORS: Balezine, S. A.; Smirnov, K. N. TITLE: Effect of alloying admixtures upon the diffusion of steels in mineral acids 4 Zhurnal prikladnov khimii, v. 36, no. 7, 1963, 1477-1482 SOURCE: TOPIC TAGS: alloying admixtures of steels, mineral acids, sulfuric acid, hydrochloric acid, chromium, nickel, copper, steel, alloy steels ABSTRACT: Authors studied the diffusion rate of steel samples, which were alloyed with chrome, nickel and copper, in solutions of sulfuric and hydrochloric acid. They established that the diffusion rate increases sharply when the chrome contents in the steel is increased from 5 to 15% and sulfuric acid concentration is also increased. Steel alloyed with 4.8% copper diffuses much more slowly with sulfuric acid concentration increased from 1 to 13N than steel alloyed with the same quantity of chrome. A steel alloyed with chrome (4.65%), nickel (5.9%) and copper (5.3%) diffuses much more slowly than one alloyed with chrome only. 127 1/2 · Card

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ACCESSION NR: AP3006180

A 4.94% nickel admixture into the steel greatly lowers the diffusion rate in sulfuric acid. This reduction is somewhat increased with rise in sulfuric acid concentration. Introduction of ChM inhibitor into the sulfuric acid concentration lowers the diffusion rate of a steel alloyed with chrome and nickel. The diffusion rate of a steel in a 3N solution of hydrochloric acid rises sharply with an increase in the percentage content of chrome from 5 to 15%, and it decreases with the same amount of nickel content. Introduction of an 0.8% content of PB-5 inhibitor into the acid solution retards the diffusion of steels alloyed with chrome as well as with nickel. Orig. art. Has: 5 figures and 7 tables.

ASSOCIATION: None

SUBTITTED: 29Jan53

DATE ACQ: 25Sep63

ENCL: 00

SUB CODE: ML, CH

NO REF SOV: 002

OTHER: 000

2/2

Card

SOV/86-59-4-42/48

AUTHOR:

Smirnov, K. S., Engr-Maj

TITLE:

An Experiment proved by Life (Opyt, proverennyy zhizn'yu)

PERIODICAL:

Vestnik vozdushnogo flota, 1959, Nr 4, pp 84 and 85 (USSR)

ABSTRACT:

The article describes a method used for the prevention of damage to the thermal insulation of an aircraft battery container. When some electrolyte escapes occasionally from the battery (during sharp maneuvers for instance) and falls on the felt insulation of the container, the insulation is damaged by corrosion. Because of damaged insulation the temperature of electrolyte drops and this in turn lowers the voltage and capacity of the battery. If at normal temperature of electrolyte several engine starts can be made from the 12-SAM-28 battery, only one start is possible at a temperature of -15°C. Sen Engr-Lt L. S. Sharapov of an air force unit suggested that for the protection of thermal insulation of the battery, the felt should be covered with a layer of acid resistant chlorovinyl. One diagram.

Card 1/1

SMIRNOV, K.S., inzhener-podpolkovnik

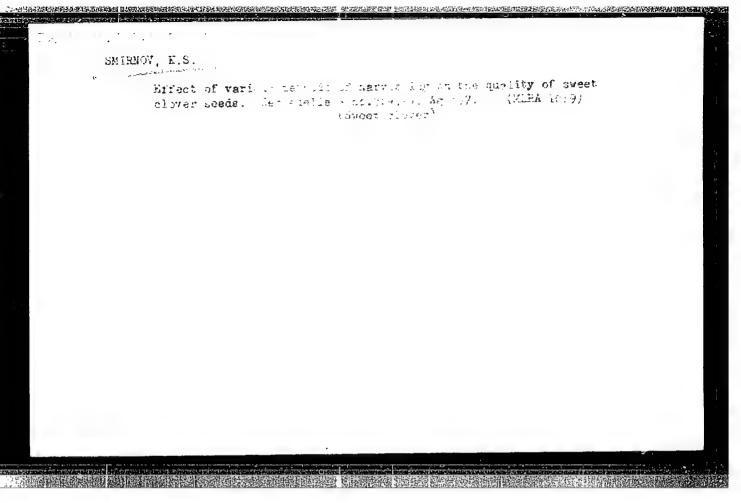
New calibrating equipment. Vest. Vozd. Fl. no.11:58-59 N '61.

(MIRA 15:2)

(Testing machines) (Aeronautical instruments--Testing)

SMIRNOV, K. S., Cand Agr Sci -- (diss) "Harvesting of Grass in Leningradskaya Oblast under Conditions of Bad Weather." Len, 1957. 16 pp (Min of Agriculture USSR, Len Agricultural Inst, Chair of Meadow Cultivation), 120 copies (KL, 48-57, 108)

- 49 -



SMIRKOV, K.S. (Penza)

Some peculiarities in the formation of conditioned pupillary responses in man. Vop.psikhol. 5 no.2:117-130 Mr-Ap '59.

(KIRA 12:6)

(Conditioned response) (Pupil (Bye))

SMIRNOV, K. S. and AGAPOV, G. M.

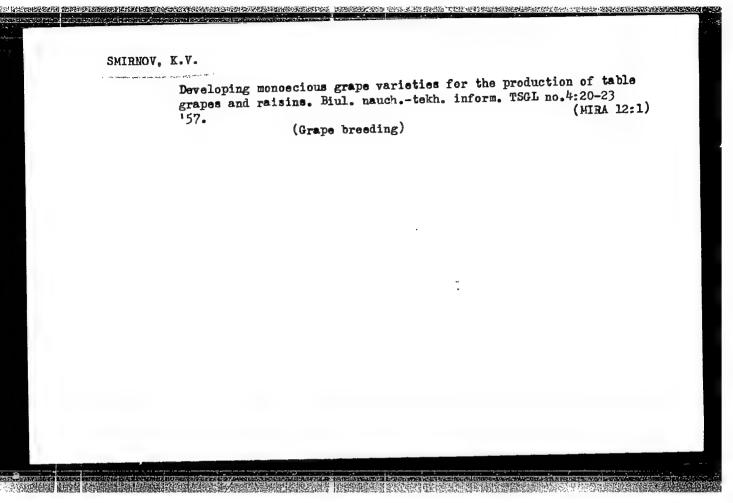
"Reaching Advanced Production," Tekst. prom., 12, No.4, 1952

Development

SMIRNOV, K. V., Cand of Agric Sci -- (diss) "Xintation of Large Seedless

Grapes for Uzbek SSR," Michurinsk, 1957, 17 pp (Fruit and Vegetable

Institute im I. V. Michurin) (KL, 5-60, 129)



USSR/Cultivated Plants - Fruits. Berries.

Abs Jour

: Ref Zhur Biol., No 18, 1958, 82548

Author

Smirnov, K.V.

Inst Title Growing Monoecious Grape Varieties for the Table and

Raisins

Orig Pub

: Sots. s.-kh. Uzbekistana, 1957, No 10, 72-75

Abstract

At the Samarkand Affiliate of the Uzbek Institute of Fruit Growing and Vitic lture, a number of combinations were tried of crossing varieties with the functionally female types of flower with monoecious varieties and of monoecious with monoecious varieties to obtain high quality varieties of kishmish)currant) and table-raisin tendencies with the monoccious type of the flower. The st dy of the sex of the flower of hybrid seedlings obtained from crossing varieties with the functionally female type of flower - Nimrança, Katta-Kurgana and Charasa

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08/25/2000

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·USSR/Human and Animal Physiology - (Normal and Pathological). Action of Physical Factors. Ionizing Radiation.

Abs Jour

: Ref Zhur Biol., No 4, 1959, 18072

Smirnov, K.V.

Author

Inst

Secretory Function of the Small Intestine in Acute

Radiation Sickness Title

Orig Pub

: Med. radiologiya, 1958, 3, No 3, 46-51

Abstract

In 25 dogs (D) with sections of small intestine isolated according to Tyry, intestinal secretion was induced by mechanical stimulation (rubber tube). Intestinal juice (LJ) was collected for the duration of 6 hours every other day; the total amount of LJ and activity of enterokinase, alkali phosphatase, peptidases and lipase were determined. The anzyme activity (EA) was determined according to the method of G.K. Shlygin and others. The experiments were conducted for 180-200 days,

Card 1/3

JUSSR/Human and Animal Physiology - (Normal and Pathological).

Action of Physical Factors. Ionizing Radiation.

Abs Jour : Ref Zhur Biol., No 4, 1959, 18072

increase of secretion and activity preceded a short phase of their decrease. The periodicity (phased nature) of secretory processes is the result of dysfunctions which take place after x-ray irradiation. In the severe form of acute radiation sickness, early morphological disturbances in the alimentary organs and first of all in the small intestine were observed. The mechanism of disturbances of secretory processes is connected, apparently, with pathologic shifts in the CNS and disturbance of metabolism. -- A.D. Zhuchkiva

Card 3/3

- 131 -

SMIRNOV, K.V.

Mechanism of disorders in the motor and secretory function of the main intestine in acute radiation injury. Med. rad. 5 no.12:72 (MIRA 14:3)

160. (RADIATION SICKNESS) (INTESTINES)

SMIRNOV, K.V.; SHATERNIKOV, V.A.

Effect of external ionizing irradiation on heptic and intestinal participation in lipid metabolism. Vop.med.khim. 6 no.5:464-468 (MIRA 14:1)

(LIPID METABOLISM) (LIVER) (RADIATION SICKNESS)

21.6300 17.3000 69512

Smirnov, K. V., Shaternikov, V. A.

s/020/60/131/04/067/073 B011/B002

AUTHORS &

Acetylcholine Appearing in the Blood Under the Influence of

TITLE: Ionizing Radiation

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 4, pp 961-963 (USSR) PERIODICAL:

ABSTRACT:

This paper is ment to explain the participation of small intestine and liver in the metabolism of acetylcholine in the action of 7-irradiation. The experiments were made with three dogs angiostomized according to Ye. S. London's method (modification by the authors). Isolated sections of the small intestine were used as tubules. Stomata were fixed at vena portae and hepatica. 18 hours after feeding, blood was taken from arteria femoralis and the two weins mentioned. For 5 minutes, 2 ml of this blood were extracted with 8 ml of Ringer's solution (pH of 7.6) and eserine (2.10-5) under heating by means of a boiling bath. The extract was tested in a muscle of the back of the leech. The difference between the muscle contraction in the experiment and in the control (control with addition of active cholinesterase) corresponded to the contraction achieved under the action of acetylcholine contained in the blood. It was found that the arterial peripheral blood flowing off from intestine and liver in all three dogs not exposed

Card 1/3

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Acetylcholine Appearing in the Blood Under the Influence of Ionizing Radiation

S/020/60/131/04/067/073 B011/B002

to irradiation, contained only traces of acetylcholine. After this has been found out, animals not treated before, were completely exposed to 7-rays of Co60 (dose of 300 r, dose intensity of 450-460 r/min). Table 1 gives the amounts of acetylcholine contained in the individual blood vessels. Already 2 hours after irradiation on empty stomach, acetylcholine appeared in the blood of intestines and livers of all dogs examined. Acetylcholine however, was completely stored by the liver. On the second day even more acetylcholine was secreted by the intestine into the blood stream, its concentration in the vena portae increased up to 10-15 µg%. In two dogs, acetylcholine not only penetrated the liver, but was also found in the arterial blood. Six days after irradiation, the content of acetylcholine in the vena portae become somewhat lower in two of the dogs, while the liver of one of them, still let it pass. This dog soon died. Another dog showed such an escape of acetylcholine on the 9th day after irradiation. The vena portae of all dogs contained acetylcholine until the observation was terminated. The constant transportation of acetylcholine into the liver cannot be ineffective. A certain favorable influence on the metabolism of the liver seems quite possible. A negative influence is also possible, but special investigations are necessary to find this out.

Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651520013-7"

SMIRNOV, K. V., Cand Med Sci -- "Secretion and motor functions of the small intestines in acute radiation disease." Mos, 1961. (Acad Med Sci USSR) (KL, 8-61, 522)

- 522 -